AMENDMENTS TO THE CLAIMS:

Please cancel Claims 20-41 and 48 without prejudice or disclaimer of the subject matter recited therein, and amend Claim 1, 2, 4-19, 42, 43, and 45-47 as follows. All claims currently pending in this application, including those not currently being amended, have been reproduced below.

1. (Currently Amended) A method of estimating motion of a moving object, said method comprising the steps of:

capturing at least first and second blurred images of said the moving object, the blur in said the first and second blurred images arising from at least motion blur of said the object, wherein exposure durations of said the first and second blurred images overlap at least partially;

generating an error function, said the error function being a function of said the first blurred image and said the second blurred image;

minimising said the error function; and estimating said the motion of said the object from said the

estimating said the motion of said the object from said the minimised error function.

- 2. (Currently Amended) A method according to claim 1, wherein said the images are captured with a time difference between a start time of capture of said the first blurred image and a start time of capture of said the second blurred image.
- 3. (Original) A method according to claim 1, wherein a start time of capture of the first blurred image and a start time of capture of the second blurred image are concurrent.

- 4. (Currently Amended) A method according to claim 2, wherein said the exposure duration of said the first blurred image is substantially equal to said the exposure duration of the second blurred image.
- 5. (Currently Amended) A method according to claim 2 or 3, wherein said the exposure duration of said the second blurred image is a predetermined integer multiple of said the exposure duration of said the first blurred image.
- 6. (Currently Amended) A method according to claim 1, wherein an exposure pattern (profile) of said the exposure duration of at least one of said the first and second blurred images is non-uniform.
- 7. (Currently Amended) A method according to claim 6, wherein said the exposure pattern (profile) comprises a triangular profile.
- 8. (Currently Amended) A method of estimating motion of a moving object, said method comprising the steps of:

capturing at least first and second blurred images of said the moving object, the blur in said the first and second blurred images arising from at least motion blur of said the object, wherein exposure durations of said the first and second blurred images overlap at least partially;

generating an error function, said the error function comprising a cross-correlation term being a cross-correlation between said the first blurred image and said the second blurred image;

minimising said the generated error function; and

estimating said the object motion from said the minimised error function.

- 9. (Currently Amended) A method according to claim 8, wherein said the error function further comprises an auto-correlation term being an auto-correlation of said the first blurred image.
- 10. (Currently Amended) Apparatus An apparatus for estimating motion of a moving object, said apparatus comprising:

one or more capture devices for capturing at least first and second blurred images of said the moving object, the blur in said the first and second blurred images arising from at least motion blur of said the object, wherein exposure durations of said the first and second blurred images overlap at least partially;

means for generating an error function, said the error function being a function of said the first blurred image and said the second blurred image;

means for minimising said the error function; and
means for estimating said the motion of said the object from said the
minimised error function.

11. (Currently Amended) Apparatus The apparatus according to claim 10, wherein said the images are captured with a time difference between a start time of capture of said the first blurred image and a start time of capture of said the second blurred image.

- 12. (Currently Amended) Apparatus The apparatus according to claim 10, wherein a start time of capture of the first blurred image and a start time of capture of the second blurred image are concurrent.
- 13. (Currently Amended) Apparatus The apparatus according to claim 11, wherein said the exposure duration of said the first blurred image is substantially equal to said the exposure duration of the second blurred image.
- 14. (Currently Amended) Apparatus The apparatus according to claim

 11 or 12 or 13, wherein said the exposure duration of said the second blurred image is a predetermined integer multiple of said the exposure duration of said the first blurred image.
- 15. (Currently Amended) Apparatus The apparatus according to claim 10, wherein an exposure pattern (profile) of said the exposure duration of at least one of said the first and second blurred images is non-uniform.
- 16. (Currently Amended) Apparatus The apparatus according to claim 15, wherein said the exposure pattern (profile) comprises a triangular profile.
- 17. (Currently Amended) Apparatus An apparatus for estimating motion of a moving object, said apparatus comprising:

one or more capture devices for capturing at least first and second blurred images of said the moving object, the blur in said the first and second blurred images arising from at least motion blur of said the object, wherein exposure durations of said the first and second blurred images overlap at least partially;

means for generating an error function, said the error function comprising a cross-correlation term being a cross-correlation between said the first blurred image and said the second blurred image;

means for minimising said the generated error function; and means for estimating said the object motion from said the minimised error function.

- 18. (Currently Amended) Apparatus The apparatus according to claim 17, wherein said the error function further comprises an auto-correlation term being an auto-correlation of said the first blurred image.
- 19. (Currently Amended) Apparatus The apparatus according to claim 10 10, wherein said means for generating, said means for minimising minimising, and said means for estimation estimation, collectively comprise a computer system incorporating a sequence of program instructions for estimating said the motion using said the images output from said the one or more capture device devices.

Claims 20-41 (Canceled)

42. (Currently Amended) A computer program product including a computer readable medium incorporating a computer program estimating motion of a moving object, said computer program product comprising:

code for capturing at least first and second blurred images of said the moving object, the blur in said the first and second blurred images arising from at least

motion blur of said the object, wherein exposure durations of said the first and second blurred images overlap at least partially;

code for generating an error function, said the error function being a function of said the first blurred image and said the second blurred image;

code for minimising said the error function; and

code for estimating said the motion of said the object from said the minimised error function.

- 43. (Currently Amended) A computer program product according to claim 42, wherein said the images are captured with a time difference between a start time of capture of said the first blurred image and a start time of capture of said the second blurred image.
- 44. (Original) A computer program product according to claim 42, wherein a start time of capture of the first blurred image and a start time of capture of the second blurred image are concurrent.
- 45. (Currently Amended) A computer program product according to claim 43, wherein said the exposure duration of said the first blurred image is substantially equal to said the exposure duration of the second blurred image.
- 46. (Currently Amended) A computer program product according to claim 43 or 44, wherein said the exposure duration of said the second blurred image is a predetermined integer multiple of said the exposure duration of said the first blurred image.

47. (Currently Amended) A computer program product according to claim 42, wherein an exposure pattern (profile) of said the exposure duration of at least one of said the first and second blurred images is non-uniform.

Claim 48 (Canceled)